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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/054,438	01/22/2002	Gregory D. U'ren	00CON134P-DIV	7270	
25700	7590 12/27/2005		EXAMINER		
FARJAMI &	FARJAMI LLP		PHAM,	PHAM, LONG	
26522 LA AL	AMEDA AVENUE, SU	JITE 360			
MISSION VIEJO, CA 92691			ART UNIT	PAPER NUMBER	
			2814		

DATE MAILED: 12/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner		Application No.	Applicant(s)			
Long Pham 2814 - The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after Stik (6) MONTHS from the mailing date of this communication. - If NO period for reply his specified above, the maximum statutory period will apply and will expire SX (6) MONTHS from the mailing date of this communication. - If all we to reply within the set or extended pend for reply will, by statute, cause the application to become ABANDONED (35 U.S.C, § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on		10/054,438	U'REN, GREGORY D.			
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Priority under 35 U.S.C. § 119	11) ☐ The oath or declaration is objected to by the	e Examiner. Note the attached (Office Action or form PTO-152.			
	Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 	a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority docur	ments have been received.				
3. Copies of the certified copies of the priority documents have been received in Application No						
application from the International Bureau (PCT Rule 17.2(a)).	<u> </u>					
* See the attached detailed Office action for a list of the certified copies not received.	• •		ceived.			
Attachment(s)	<u> </u>	_				
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date		·				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) Paper No(s)/Mail Date	3) Information Disclosure Statement(s) (PTO-1449 or PTO/S	(B/08) 5) Notice of Info	rmal Patent Application (PTO-152)			

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DETAILED ACTION

Rejections and/or objections necessitated by the amendments *Claim Rejections - 35 USC § 103**

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 18 as presently amended and 19-22 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over the applicant's admitted prior art (AAPA) in combination with Shimawaki (US patent 5,321,302) and Racanelli (US publication 2002/0117734) (a reference of record, newly applied).

AAPA in combination with Shimawaki teach the claimed invention. See the contents of office action dated 07/19/05.

With respect to amended claim 18, AAPA in combination with Shimawaki fail to teach a silicon oxide structure is formed between the base contact and a substrate and the base contact is in direct contact with the silicon oxide structure.

Racanelli teaches a similar device in which a silicon oxide structure 110 is formed between a base contact and a substrate and the base contact is in direct contact with silicon oxide structure. See fig. 1 and associated text.

It would have been obvious to one of <u>ordinary skill</u> in the art of making semiconductor devices to incorporate the above teaching of Racanelli into the device of AAPA and Shimawaki to provide electrical isolation from other devices on the substrate. See [0021].

Claims 25 as presently amended and 26-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over the applicant's admitted prior art (AAPA) in combination with Shimawaki (US patent 5,321,302) and Racanelli (US publication 2002/0117734) (a reference of record, newly applied).

AAPA in combination with Shimawaki teach the claimed invention. See the contents of office action dated 07/19/05.

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With respect to amended claim 25, AAPA in combination with Shimawaki fail to teach a silicon oxide structure is formed between the base contact and a substrate and the base contact is in direct contact with the silicon oxide structure.

Racanelli teaches a similar device in which a silicon oxide structure 110 is formed between a base contact and a substrate and the base contact is in direct contact with silicon oxide structure. See fig. 1 and associated text.

It would have been obvious to one of <u>ordinary skill</u> in the art of making semiconductor devices to incorporate the above teaching of Racanelli into the device of AAPA and Shimawaki to provide electrical isolation from other devices on the substrate. See [0021].

Claims 36 as presently amended and 37-40, and 42-45 are rejected under 35 U.S.C. 103(a) as being unpatentable over the applicant's admitted prior art (AAPA) in combination with Shimawaki (US patent 5,321,302) and Racanelli (US publication 2002/0117734) (a reference of record, newly applied).

AAPA in combination with Shimawaki teach the claimed invention. See the contents of office action dated 07/19/05.

With respect to amended claim 36, AAPA in combination with Shimawaki fail to teach a silicon oxide structure is formed between the base contact and a substrate and the base contact is in direct contact with the silicon oxide structure.

Racanelli teaches a similar device in which a silicon oxide structure 110 is formed between a base contact and a substrate and the base contact is in direct contact with silicon oxide structure. See fig. 1 and associated text.

It would have been obvious to one of <u>ordinary skill</u> in the art of making semiconductor devices to incorporate the above teaching of Racanelli into the device of AAPA and Shimawaki to provide electrical isolation from other devices on the substrate. See [0021].

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Response to Arguments

Applicant's arguments with respect to claims 1-22, 24-40, and 42-45 have been considered but are most in view of the new ground(s) of rejection.

Allowable Subject Matter

Claims 46 and 47 are allowed.

Claims 23 and 41 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Long Pham whose telephone number is 571-272-1714. The examiner can normally be reached on Mon-Frid, 10am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on 571-272-1705. The fax

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phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kong ∕Pham

Primary Examiner

Art Unit 2814